



HAZLETON RALTECH, INC.

3301 KINSMAN BLVD. • P.O. BOX 7545 • MADISON, WI 53707 • (608) 241-4471 • TLX 260098 HAZRAL MDS

File
St. Clair Co. 4/16/83
Savage STI
file

154121

April 6, 1983

RECEIVED

APR 18 1983

U.S. EPA - DLS
MGRS. OFC.

Mr. John Hurley
State of Illinois EPA
Division of Laboratories
2200 Church Hill Road
Springfield IL 62706

Dear Mr. Hurley:

Please find enclosed the analytical results of the analyses performed on samples received on February 28 and March 21, 1983. The samples were analyzed according to protocols established in the enclosed methodology.

As you are aware, your samples contained polychlorinated biphenyls which interfered with our measurement of the surrogate/interval standard added at a level of 2.5 ppb in the sample. The cleanups employed in the methodology were unsuccessful in eliminating the interference. Several samples in the original set and all of the samples in the second set were cleaned up using florisil column chromatography which eliminated the PCB interference.

Thank you, Mr. Hurley, for choosing Hazleton Raltech, Inc. Please feel free to call if you have any questions or further needs.

Sincerely,

Joel R. Baseley

Joel R. Baseley
Section Supervisor
Mass Spectrometry

JRB/km

006473

Table 1

Soil Samples Received February 28, 1983

Results for TCDD Analyses Using a Jar Extraction

HRI Sample Number	Description: Composite Soil	Cleanup	TCDD (ng/g)	Detection Limit (ng/g)	Recovery of Surrogate (%)
744352	1 (0" to 7")	A, B	ND	0.50	110
Duplicate			ND	0.40	100
744353	2A (0" to 7")	A, B, C	ND	0.50	63
744354	2B (7" to 13")	A, B	ND	0.30	76
744355	3A (0" to 7")	A, B, C	ND	0.90	36
744356	3B (7" to 13")	A, B	ND	0.40	53
744357	4A (0" to 6")	A, B	ND	0.10	86
744358	4B (6" to 13")	A, B, C	ND	0.20	43
744359	5A (0" to 6")	A, B, C	18	-	67
Duplicate			17	-	103
Triplicate			18*	-	108
744360	5B (6" to 14")	A, B, C	4.1	-	47
Spike**			-	-	30
744361	6 (0" to 8")	A, B, C	ND	0.30	63
Method Blank		A, B, C	ND	0.10	95

A = Silica cleanup.

B = Alumina cleanup.

C = Florsil cleanup.

ND = Not detected.

* = Confirmed by partial scan.

** = Recovery of spiked TCDD was 113%.

006424

Table 2

Soil Samples Received March 23, 1983

Results for TCDD Analyses Using a Jar Extraction

<u>HRI Sample Number</u>	<u>Description: Composite Soil</u>	<u>TCDD (ng/g)</u>	<u>Detection Limit (ng/g)</u>	<u>Recovery of Surrogate (%)</u>
949717	7A (0" to 6")	ND	0.69	77
949718	7B (8" to 16")	1.8	-	120
949719	8B (6" to 12")	77*	-	99
949720	8D (18" to 25")	ND	0.30	118
Duplicate	8D (18" to 25")	ND	0.60	112
Spike**	-	-	-	86
949721	9A (0" to 6")	1.3	-	106
949722	9C (14" to 21")	ND	0.60	74
949723	10A (0" to 6")	0.92	-	63
949724	10B (6" to 12")	12	-	87
949725	11B (6" to 18")	ND	0.58	103
949726	13B (7" to 18")	ND	0.67	62
949727	15 (0" to 16")	13*	-	66
949728	16 (8" to 18")	25*	-	92
Method blank	-	ND	0.30	75

Note: All samples were cleaned up on silica, alumina, and Florisil columns.

ND = Not detected.

* = Confirmed by partial scanning.

** = Spike recovery was 86%.

006425